

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for measuring a quantity of usage of a CPU, comprising:

reading execution time of ~~a thread with a certain~~ threads during a predetermined timer time interval and adding ~~the~~ execution time values for each thread that is not a system thread to get a first total;

subtracting a total of execution time of a former stored thread from the ~~grand~~ first total; and

measuring a quantity of usage of a CPU by dividing the subtracted execution time ~~of the thread~~ by the ~~certain~~ predetermined timer time.

2. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 1, wherein the ~~adding~~ reading process ~~for adding the execution time of the thread is performed repeatedly until there is the same value by comparing a total of values reading threads excluding the thread with a system thread value~~ comprises:

identifying a current thread; and

comparing the identified thread to the system thread.

3. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 2, wherein the adding process further comprises reading ~~the~~ all the threads excluding the system thread sequentially after reading the system thread.

4. (Original) The method for measuring the quantity of usage of the CPU according to claim 1, wherein the quantity of usage of the CPU is compensated by finding an average value between former measured quantities of usage of a CPU and a present measured quantity of usage of a CPU when the quantity of usage of the CPU suddenly varies.

5. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 4, wherein the ~~certain~~ predetermined time timer interval is not greater than 10 seconds.

6. (Original) The method for measuring the quantity of usage of the CPU according to claim 4, wherein the present measured quantity of usage of the CPU is maintained as it is when the quantity of usage of the CPU does not vary suddenly.

7. (Original) The method for measuring the quantity of usage of the CPU according to claim 4, wherein the present measured quantity of usage of the CPU is maintained as it is when the quantity of usage of the CPU varies suddenly.

8. (Currently Amended) A method for measuring a quantity of usage of a CPU in a system, comprising:

identifying a system thread identifier;

comparing subsequent thread identifiers to the system thread identifier;

reading execution time of all threads excluding [[a]] the system thread with a certain timer time interval until a predetermined event occurs;

adding the read values execution times;

subtracting a total of execution time of the a former stored thread from the grand a total time of the added execution times; and

measuring a quantity of usage of a CPU by dividing the subtracted execution time of the thread by the certain timer a time period determined by the predetermined event.

9. (Canceled)

10. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 8, wherein the adding process further comprises reading ~~the~~ all the threads excluding the system thread sequentially after reading the system thread.

11. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 8, wherein the predetermined event is time-out of a predetermined timer time interval, and wherein the quantity of usage of the CPU is compensated by finding an average value between the former quantity of usage of the CPU and the present measured quantity of usage of the CPU when the quantity of usage of the CPU varies suddenly due to the ~~certain~~ predetermined timer time interval.

12. (Currently Amended) The method for measuring the quantity of usage of the CPU according to claim 11, wherein the ~~certain~~ predetermined timer time interval is not greater than 10 seconds.

13. (Original) The method for measuring the quantity of usage of the CPU according to claim 11, wherein the present measured quantity of usage of the CPU is maintained as it is when the quantity of usage of the CPU does not vary suddenly.

14. (Original) The method for measuring the quantity of usage of the CPU according to claim 11, wherein the present measured quantity of usage of the CPU is maintained as it is when the quantity of usage of the CPU varies suddenly.

15. (Currently Amended) A method for measuring CPU usage, comprising:

- (a) reading an execution time of a ~~thread~~ threads over a time interval;
- (b) adding the execution times of threads that are not a system thread to obtain a grand total;
- (c) reading a total execution time for a previously stored thread;
- (d) subtracting the total execution time for the previously stored thread from the grand total to obtain a result; and
- (e) outputting the result.

16. (Original) The method as set forth in claim 15, further comprising dividing the result by the time interval, to yield a usage percentage.

17. (Original) The method as set forth in claim 15, wherein the time interval does not exceed 10 seconds.

18. (Original) The method as set forth in claim 15, further comprising compensating the CPU usage by an amount indicative of a previous average usage.

19. (Original) The method as set forth in claim 15, further comprising outputting the total execution time to the register for CPU usage.

20. (Currently Amended) The method as set forth in claim 15, further comprising outputting the total execution time for ~~availability~~ availability to device drivers.

21. (Currently Amended) The method as set forth in claim 15, wherein the previously stored thread is ~~the~~ a previous system thread.

22. (Currently Amended) The method as set forth in claim 21, ~~wherem~~ wherein the step of adding execution times continues until the grand total minus the total execution time of the previously stored system thread substantially agrees with the new system thread total execution time.

23. (Original) The method according to claim 21, wherein the adding step further comprises adding the execution times of all threads excluding the system thread, sequentially after the system thread.

24. (Currently Amended) The method according to claim 21, further comprising continually repeating steps (a)-(e) until a function for measuring the CPU usage or the CPU is disabled.

25. (Original) The method according to claim 21, wherein the reading of the execution time is performed by an I/O device driver command.

26. (Original) The method according to claim 21, further comprising adjusting a clock pulse of the CPU in response to the grand total of execution times.

27. (New) The method for measuring the quantity of usage of the CPU according to claim 8, wherein the identifier is a thread handle.

28. (New) The method for measuring the quantity of usage of the CPU according to claim 8, wherein the predetermined event is time expiration of a timer or receiving the system thread identifier.

29. (New) The method for measuring the quantity of usage of the CPU according to claim 8, wherein the time period is a predetermined timer time or an ending execution time of the system thread.

30. (New) A method, comprising:

- initializing a timer and a subtotal;
- identifying a handle of a system thread;
- starting the timer;
- reading an execution time of a next thread that is not the system thread;
- adding the execution time of the read next thread to the subtotal;
- repeating the reading and the adding steps until the timer reaches a prescribed value;
- subtracting a previously stored thread value from the subtotal to get a result;
- dividing the result by the timer prescribed value;
- storing the subtotal as the previously stored value;
- outputting the usage value; and
- repeating the initializing through storing until a CPU monitoring function is disabled.